

Erfan Loghmani

Curriculum Vitae/Resume

Education

2018.9–present **Master of Science student in Artificial Intelligence**, Sharif University of Technology, Tehran Iran, GPA: 18.45/20.00.

Relevant courses, *Topics in Statistics: 20, Machine Learning: 17.3, Digital Signal Processing: 18.2, Convex Optimization: 19.3, Digital Image Processing: 19.0, Deep Learning: 14.9, Information Theory & Coding: 19.0.*

2014.9–2018.9 **Bachelor of Science student in Computer Engineering**, Sharif University of Technology, Tehran Iran, GPA: 18.04/20.00.

Relevant courses, *Engineering Probability and Statistics: 20, Data Structures: 19.9, Advanced Programming: 20, Stochastic Processes: 16.2, Fundamentals of Bioinformatics: 18.5, Signals and Systems: 20, Algorithmic Game Theory: 20, Artificial Intelligence 15.8, Computer Simulation 20.*

Fields of Interest

Computational Social Science

Graph Neural Networks

Machine Learning

Statistical Inference

Research Experience

2020 **Representation Learning on Dynamic Graphs**, Sharif University of Technology.

This is an ongoing project in which we are trying to design an online learning method for graph-structured data that could be used for tasks like link prediction or node classification.

2018 **Profiling Researchers Based on Features Extracted from Articles and Citations**, Sharif University of Technology.

We developed a mathematical model for evaluating scientific researchers. Our proposed model improves on two existing probabilistic models, R-model & Q-model, by incorporating an iterative strategy to obtain a better quantitate evaluation of the researchers.

Teaching Experience

Teaching assistant Convex Optimization, Spring 2020

Teaching assistant Engineering Probability and Statistics, Spring 2020, Fall 2017, Spring 2017

Teaching assistant Social and Economic Networks, Fall 2019, Spring 2018

Teaching assistant Data Structures and Algorithms, Fall 2016

Work Experience

Technical Team Member **Rooberah.co**, July 2019 - July 2020.
Software Engineer **Pushe.co**, May 2018 - February 2019.

Poster Presentation

2019 **Representation Learning on Dynamic Graphs**, *ICTP Workshop on Science of Data Science*, Trieste Italy.

Academic Service

2015–2017 Member of the Student Scientific Chapter (SSC), Computer Engineering Department of Sharif University of Technology, SSC is the student committee concerned with directing the department extra-curriculum activities.

Course Projects

- 2019 **What You Get Is What You See: A Visual Markup Decompiler**, *Course: Deep Learning*.
We implemented different deep learning architectures for converting images to their original latex code and compared the results.
- 2019 **Generative Image Inpainting with Contextual Attention**, *Course: Digital Image Processing*.
In this project, I overviewed a publication on image inpainting task and done a literature review on other methods for this task.
- 2018 **What Causes Students Not to Ask Their Questions in Class?**, *Course: Topics in Statistics*.
We designed a survey and a sampling mechanism in university, then analyzed the results to find patterns in the data and possible explanations.

Awards

- 2018 Ranked 5th in national scientific olympiads for university students in Computer Engineering, 2018, Iran.
- 2018 Ranked 3rd in the universities entrance exam for Artificial Intelligence M.Sc. degree, 2018, Iran.
- 2018 Ranked 1st in the universities entrance exam for Bioinformatics and Data Analysis M.Sc. degree, 2018, Iran.
- 2014 Ranked 258th among more than 220,000 participants in the nation-wide universities entrance exam (Concours), 2014, Iran.
- 2013 Ranked in the top 60 students for the Iranian National Olympiads in Informatics

Computer skills

Advanced PYTHON, C/C++
Intermediate R, Matlab, Bash, PHP, javascript, Java, HTML, L^AT_EX, Linux
Familiar with Octave, Scala

Languages

Persian Native
English Upper Intermediate, TOEFL (iBT) score: 106/120